

In the Claims:

Please amend claims 3 and 4 as indicated below. This listing of claims replaces all prior versions.

1. (Previously Presented) A method for wirebonding leads of a plurality of lead frames being part of a lead frame assembly by a wirebonding tool to semiconductor products mounted on the respective lead frames, the lead frame assembly being indexable in an index direction relative to a wirebonding frame, and comprising a first row of lead frames and a second row of lead frames that is adjacent and parallel to the first row as seen in the index direction, the lead frames being spaced from each other at a lead frame pitch in the index direction, the method comprising the steps of:

(a) clamping the leads of n adjacent lead frames of the first row by a first clamp, and wirebonding the leads of the n lead frames of the first row to the corresponding semiconductor products;

(b) clamping the leads of n adjacent lead frames of the second row by a second clamp, and wirebonding the leads of the n lead frames of the second row to the corresponding semiconductor products;

(c) releasing the first clamp after step (a);

(d) indexing the lead frame assembly over n lead frame pitches relative to the wirebonding frame after step (a), the second clamp and the wirebonding tool following the index movement;

(e) releasing the second clamp after step (b);

(f) moving the second clamp opposite to the indexing direction over n lead frame pitches; and

(g) repeating steps (a)-(f).

2. (Original) The method according to claim 1, characterized in that after step (f), the n lead frames of the first row lead one lead frame pitch relative to the n lead frames of the second row.

3. (Currently Amended) The method according to claim 1, characterized by at least one further row of lead frames that is adjacent and parallel to the first row as seen in the index direction, the further row being located on the side of the first row ~~facing away~~ opposite from the second row of lead frames, the first clamp in step (a) further clamping n lead frames of the further row adjacent the n lead frames of the first row.

4. (Currently Amended) The method according to claim 1, characterized by at least one further row of lead frames that is adjacent and parallel to the second row as seen in the index direction, the further row being located on the side of the second row ~~facing away~~ opposite from the first row of lead frames, the second clamp in step (b) further clamping n lead frames of the further row adjacent the n lead frames of the second row.

5. (Previously presented) The method according to claim 1, characterized in that n is even.

6. (Previously presented) The method according to claim 1, characterized in that the first clamp is stationary relative to the wirebonding frame, as seen in the index direction.

7. (Previously Presented) Wirebonding apparatus for wirebonding leads of a plurality of lead frames being part of a lead frame assembly to semiconductor products mounted on the respective lead frames, the apparatus comprising:

a wirebonding frame;

an indexing device for indexing the lead frame assembly in an index direction relative to the wirebonding frame;

at least a first clamp for clamping the leads of n adjacent lead frames of a first row of lead frames as seen in the index direction, the first clamp being stationary in the index direction relative to the wirebonding frame;

at least a second clamp for clamping the leads of n adjacent lead frames of a second row of lead frames that is adjacent and parallel to the first row as seen in the index direction, the second clamp being movable in the index direction relative to the wirebonding frame; and

a wirebonding tool for wirebonding the leads of the n lead frames of the first and the second row to the corresponding semiconductor products, the wirebonding tool and the second clamp being adapted for following the index movement of the lead frame assembly.

8. (Original) Wirebonding apparatus according to claim 7, characterized in that the wirebonding tool is adapted to perform a wirebonding operation during the movement of the second clamp.
9. (Previously presented) Wirebonding apparatus according to claim 7, characterized in that the first clamp and the second clamp are situated generally opposite to each other, as seen transversely to the index direction.
10. (Previously Presented) Wirebonding apparatus according to claim 7, characterized in that n is an even integer.
11. (Previously Presented) Wirebonding apparatus according to claim 7, characterized in that the wirebonding tool is adapted to perform a wirebonding operation while the first clamp is released.
12. (Previously Presented) Wirebonding apparatus according to claim 7, characterized in that the first clamp further clamps n lead frames of a further row of lead frames, the n lead frames of the further row being adjacent to the n adjacent lead frames of the first row and the further row of lead frames being adjacent and parallel to the first row as seen in the index direction.